

L Number	Hits	Search Text	DB	Time stamp
-	107941	SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:37
-	84695	(SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4) and ((wireless portable cell) device\$1 telephone\$1 phone\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 14:30
-	120058	router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:39
-	5971177	format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:39
-	4894081	priority prioritiz\$4 weight\$4 order\$4 sequenc\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:39
-	43334	(SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4) with ((wireless portable cell) device\$1 telephone\$1 phone\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 15:03
-	10633	((SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4) with ((wireless portable cell) device\$1 telephone\$1 phone\$1) ) and (router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) and (format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) and (priority prioritiz\$4 weight\$4 order\$4 sequenc\$4 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:01
-	523	SMS.ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:02
-	5	((SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4) with ((wireless portable cell) device\$1 telephone\$1 phone\$1) ) with (router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) with (format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) with (priority prioritiz\$4 weight\$4 order\$4 sequenc\$4 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 14:34
-	562	(SMS (short adj messaging adj service\$1)).ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 14:35

-	144	((SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4) with ((wireless portable cell) device\$1 telephone\$1 phone\$1) ) same (router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) same (format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) same (priority prioritiz\$4 weight\$4 order\$4 sequenc\$4 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 15:01
-	92	(SMS (short adj messaging adj service\$1)) with routing with system	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 15:03
-	8493577	((SMS (short adj messaging adj service\$1)) with routing with system) ((wireless portable cell) device\$1 telephone\$1 phone\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 11:22
-	87	((SMS (short adj messaging adj service\$1)) with routing with system) and ((wireless portable cell) device\$1 telephone\$1 phone\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 15:07
-	25	((SMS (short adj messaging adj service\$1)) with routing with system) and ((wireless portable cell) adj (device\$1 telephone\$1 phone\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 12:33
-	149	((router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) and (SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4)).ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/28 16:15
-	224	709/240.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:00
-	2558	709/238-242.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:01
-	44	(SMS (short adj messaging adj service\$1)) and 709/238-242.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:26
-	148	((SMS (short adj messaging adj service\$1) ((text voice electronic) near (mail\$4 messag\$4)) email\$4 e-mail\$4) with ((wireless portable cell) device\$1 telephone\$1 phone\$1) ) and (router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) and (format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) and (priority prioritiz\$4 weight\$4 order\$4 sequenc\$4 ) and 709/238-242.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:13
-	457	379/221.01-221.02.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:26

-	2	(SMS (short adj messaging adj service\$1)) and 379/221.06.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 13:27
-	42	(SMS (short adj messaging adj service\$1)) and 379/221.01-221.02.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 14:47
-	59	379/221.06.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 14:56
-	1039	455/466.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:37
-	89190	router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1)) and 455/466.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:39
-	946	(format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) and 455/466.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:40
-	449	(router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) and 455/466.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:40
-	909	(priority prioritiz\$4 weight\$4 order\$4 sequenc\$4) and 455/466.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 10:04
-	368	(router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) and (format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) and (priority prioritiz\$4 weight\$4 order\$4 sequenc\$4) and 455/466.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:42
-	16	((router\$1 gateway\$1 (routing adj (device\$1 system\$1)) (network adj (node\$1 connection\$1))) and (format\$5 reformat\$5 config\$7 type\$2 reconfig\$7 layout\$5) and (priority prioritiz\$4 weight\$4 order\$4 sequenc\$4) and 455/466.ccls.) and 709/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/29 15:43
-	4	629552.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/02 14:14
-	2	6292552.pn.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/02 14:20
-	2	6188909.pn.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/02 14:41

-	5	94/23394	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 09:18
-	2	"9423394"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 09:26
-	0	WO94/23394.ptpn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 09:21
-	0	WO94/23394.PTPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 09:21
-	2	"WO 9423394"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 09:26
-	0	wo94/23394.ptpn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 13:32
-	2	6212550.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 13:59
-	0	6212550.pn. and SMS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 13:33
-	1	6292669.pn. and (software program code instructions)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 14:44
-	0	921167.PRAN. and (software program code instructions)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 14:49
-	0	09921167.AP. and (software program code instructions)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 13:49
-	0	09921167.AP.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 14:50
-	3	921167.AP.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 15:37
-	1	921167.AP. and (software program code instructions)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 15:01

-	2	6560456.PN. and (software program code instructions)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 15:36
-	2	921167.AP. and operat\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 15:42
-	186	gateway\$1 with ((operating adj system) and (processor))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 09:21
-	0	( SMS adj gateway\$1) with ((operating adj system) and (processor))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 16:11
-	0	( SMS near gateway\$1) with ((operating adj system) and (processor))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 16:11
-	11	(gateway\$1 with ((operating adj system) and (processor))) and (SMS (short adj messaging adj service\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/03 16:12
-	2	6212550.PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 09:21
-	29	(priority prioritiz\$4 weight\$4 order\$4 sequenc\$4) and 455/466.ccls. and 709/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 10:05
-	14	((priority prioritiz\$4 weight\$4 order\$4 sequenc\$4) same server\$) and 455/466.ccls. and 709/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 10:08
-	31	priorit\$5 same traver\$4 same server\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 13:48
-	302	SMS same rout\$5 same (software program code)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 13:49
-	64	SMS with rout\$5 with (software program code)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 13:51
-	251	455/466 and (rout\$5 with (software program code))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 13:52
-	152	455/466.ccls. and (rout\$5 with (software program code))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/05 13:52

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**1 Providing multicast short message services over self-routing mobile cellular backbone network**
*Jen-Yi Pan; Wei-Tsong Lee; Nen-Fu Huang;*

Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE , Volume 1 , 25-29 Nov. 2001

Pages:716 - 721 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(787 KB\)\]](#)   **IEEE CNF**
**2 Distributed architecture for applications based on the GSM short message service**
*Martini, G.; Rosenga, G.;*

Services in Distributed and Networked Environments, 1995., Second International Workshop on , 5-6 June 1995

Pages:140 - 145

[\[Abstract\]](#)   [\[PDF Full-Text \(468 KB\)\]](#)   **IEEE CNF**
**3 The Global System for Mobile Communications Short Message Service**
*Peersman, C.; Cvetkovic, S.; Griffiths, P.; Spear, H.;*

Personal Communications, IEEE [see also IEEE Wireless Communications] , Volume: 7 , Issue: 3 , June 2000

Pages:15 - 23

[\[Abstract\]](#)   [\[PDF Full-Text \(852 KB\)\]](#)   **IEEE JNL**
**4 Short message service link for automatic vehicle location reporting**
*Papadoglou, N.; Stipidis, E.;*

Electronics Letters , Volume: 35 , Issue: 11 , 27 May 1999

Pages:876 - 877

[\[Abstract\]](#) [\[PDF Full-Text \(252 KB\)\]](#) IEE JNL

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**5 Providing multicast short message services over self-routing mobile cellular backbone network**

*Jen-Yi Pan; Wei-Tsong Lee; Nen-Fu Huang;*

Vehicular Technology, IEEE Transactions on , Volume: 52 , Issue: 1 , Jan. 2001  
Pages:240 - 253

[\[Abstract\]](#) [\[PDF Full-Text \(1540 KB\)\]](#) IEEE JNL

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**6 iSMS: an integration platform for short message service and IP network**

*Chung-Hwa Rao, H.; Di-Fa Chang; Yi-Bing Lin;*

Network, IEEE , Volume: 15 , Issue: 2 , March-April 2001  
Pages:48 - 55

[\[Abstract\]](#) [\[PDF Full-Text \(120 KB\)\]](#) IEEE JNL

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**7 A tutorial overview of the short message service within GSM**

*Peersman, G.; Griffiths, P.; Spear, H.; Cvetkovic, S.; Smythe, C.;*

Computing & Control Engineering Journal , Volume: 11 , Issue: 2 , April 2000  
Pages:79 - 89

[\[Abstract\]](#) [\[PDF Full-Text \(668 KB\)\]](#) IEE JNL

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**8 Short message gets longer [GSM]**

*Dettmer, R.;*

IEE Review , Volume: 43 , Issue: 3 , 15 May 1997  
Pages:104

[\[Abstract\]](#) [\[PDF Full-Text \(364 KB\)\]](#) IEEE JNL

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**9 Impact of mobile-originated short message service on the digital channel of TDMA systems**

*Majmundar, M.;*

Vehicular Technology Conference, 2000. IEEE VTS-Fall VTC 2000. 52nd , Volume: 4 , 24-28 Sept. 2000  
Pages:1550 - 1555 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(1060 KB\)\]](#) IEEE CNF

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**10 A short message service for campus wide information delivery**

*Mohammad, M.A.; Norhayati, A.;*

Telecommunication Technology, 2003. NCTT 2003 Proceedings. 4th National Conference on , 14-15 Jan. 2003  
Pages:216 - 221

[\[Abstract\]](#) [\[PDF Full-Text \(559 KB\)\]](#) IEEE CNF

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**11 A system for basic-level network fault management based on the short message service (SMS)**

*Vougioukas, S.; Roumeliotis, M.;*

EUROCON'2001, Trends in Communications, International Conference on.

, Volume: 1 , 4-7 July 2001  
Pages:218 - 222 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(468 KB\)\]](#) IEEE CNF

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**12 Short message service and paging cluster size impact on the DCCH capacity (TIA/EIA/IS-136)**

*Ming Zhang; Kibria, M.;*

Vehicular Technology Conference, 1999 IEEE 49th , Volume: 3 , 16-20 May 1  
Pages:2154 - 2158 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(456 KB\)\]](#) IEEE CNF

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**13 Reliability, costs and delay performance of sending short message service in wireless systems**

*Jiang, H.;*

Universal Personal Communications, 1998. ICUPC '98. IEEE 1998 International Conference on , Volume: 2 , 5-9 Oct. 1998  
Pages:1073 - 1077 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(324 KB\)\]](#) IEEE CNF

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**14 An automated stock price delivery system based on the GSM short message service**

*Friel, D.; Kilmartin, L.;*

Communications, 1998. ICC 98. Conference Record.1998 IEEE International Conference on , Volume: 3 , 7-11 June 1998  
Pages:1591 - 1595 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(620 KB\)\]](#) IEEE CNF

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**15 Short message service based applications in the GSM network**

*Collesei, S.; di Tria, P.; Morena, G.;*

Personal, Indoor and Mobile Radio Communications, 1994. Wireless Networks Catching the Mobile Future. 5th IEEE International Symposium on , Volume: 3 , 18-23 Sep 1994  
Pages:939 - 943 vol.3

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Pages:716 - 721 vol.1

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**2 Providing multicast short message services over self-routing mobile cellular backbone network**
*Jen-Yi Pan; Wei-Tsong Lee; Nen-Fu Huang;*

 Vehicular Technology, IEEE Transactions on , Volume: 52 , Issue: 1 , Jan. 2001  
 Pages:240 - 253

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[\[PDF Full-Text \(1540 KB\)\]](#)
**IEEE JNL**
**3 Adaptive routing for road traffic**
*Fawcett, J.; Robinson, P.;*

Computer Graphics and Applications, IEEE , Volume: 20 , Issue: 3 , May-June

Pages:46 - 53

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# 1 [Exhibits: Location-sensitive services: it's now ready for prime time on cellular phones!](#)

Didier Chincholle, Mikael Eriksson, Alex Burden

 June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: pdf(1.12 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's wireless devices have the capability to receive information that is tailored to customers' needs at a particular location. A unique set of location-based services--called PNT and including user-solicited information, worldwide mapping, route guidance, positioning and ecouponing -- has been created for tiny displays and limited input of mobile Internet-enabled cellular phones. A first version is available on an Ericsson R380s. A set of user interfaces has been designed. This makes finding ...

**Keywords:** cellular phones, location-based, mobile Internet, mobile user, services, usability

# 2 [Wireless data: systems, standards, service](#)

Antonio De Simone, Sanjiv Nanda

 March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available: pdf(1.14 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Wireless data products and services being proposed today include exotic mixes of services and technologies: packet transport over cellular circuits, facsimile service over Cellular Digital Packet Data (CDPD), voice and video over wireless LANs, and everything in between. Data networking terms that seem to have a clear meaning—data-link, network and transport layers; circuit-mode and datagram; connection-less and connection-oriented—in fact have meaning only in context. Thus TCP, ...

# 3 [Experiences with network-based user agents for mobile applications](#)

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

 August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(631.57 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist

with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

#### 4 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Hualie Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available:  pdf(2.90 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

iMobile<sup>1</sup> is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

**Keywords:** content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

#### 5 Neuro-fuzzy applications: Active electronic mail

S. Karnouskos, A. Vasilakos

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(532.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network infrastructures have evolved tremendously over the last years, offering new capabilities to the applications in higher levels. Email is a widely used communication tool that could benefit of an intelligent and active underlying network in order to support sophisticated services. We explore in this paper an infrastructure based on intelligent mobile agents and active networks, and point out how and where advanced features can be introduced to our current passive email platform in order to ...

**Keywords:** active networks, computational intelligence, email, intelligent mobile agents

#### 6 MEP: a media event platform

Daniel Olsson, Andreas Nilsson

June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3

Full text available:  pdf(224.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Popular media events of today are likely to attract a big, live audience. Being part of a huge cricket audience, for example, knowing that the event is broadcast to perhaps millions of people, is a truly arousing experience. But the size of the audience and the complexity of events do not come without drawbacks. Spectators find it difficult to be at the right spot at the right time and to grasp the essentials of the on goings. We introduce a Media Event Platform, which combines various sources o ...

**Keywords:** events, media platform, mobile commerce, mobility

#### 7 Security & transport: Mobility helps security in ad hoc networks

Srdjan Capkun, Jean-Pierre Hubaux, Levente Buttyán

June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(228.73 KB)

[terms](#)


Contrary to the common belief that mobility makes security more difficult to achieve, we show that node mobility can, in fact, be useful to provide security in ad hoc networks. We propose a technique in which security associations between nodes are established, when they are in the vicinity of each other, by exchanging appropriate cryptographic material. We show that this technique is generic, by explaining its application to fully self-organized ad hoc networks and to ad hoc networks placed und ...

**Keywords:** ad hoc networks, mobility, security associations

8 [The case for services over cascaded networks](#)

Anthony D. Joseph, B. R. Badrinath, Randy H. Katz

October 1998 **Proceedings of the 1st ACM international workshop on Wireless mobile multimedia**

Full text available:  pdf(1.08 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 [Overview of 5ESS-2000 switch performance](#)

Richard Singer

October 1998 **Proceedings of the first international workshop on Software and performance**


Full text available:  pdf(910.09 KB)

Additional Information: [full citation](#), [index terms](#)

10 [Using PARLAY APIs over a SIP system in a distributed service platform for carrier grade multimedia services](#)

Rudolf Pailer, Johannes Stadler, Igor Miladinovic

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available:  pdf(1.19 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added services ...

**Keywords:** SIP-Parlay mapping, caller preferences, carrier grade services, network-independent services, service platform

11 [Using publish/subscribe middleware for mobile systems](#)

Gianpaolo Cugola, H.-Arno Jacobsen

October 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 4

Full text available:  pdf(92.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The range of mobile computing applications comprises location-based services, sensor networks, and ad hoc networking. Middleware for these applications must effectively support the interaction of a priori anonymous entities, support timely decoupled processing, and mediate between potentially millions of mobile clients. These requirements are hard to achieve with traditional client/server middleware systems. We argue that the

publish/subscribe paradigm effectively addresses many of the challenge ...

12 [rhizoreality.mu](#)

Christian Babski, Patrick Keller

February 2001 **Proceedings of the sixth international conference on 3D Web technology**

Full text available:  pdf(1.44 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Java, VRML, multi-user, scalable system, shared virtual worlds

13 [User mobility profile prediction: an adaptive fuzzy inference approach](#)

Xuemin Shen, Jon W. Mark, Jun Ye

November 2000 **Wireless Networks**, Volume 6 Issue 5

Full text available:  pdf(213.04 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

14 [Application-layer mobility using SIP](#)

Henning Schulzrinne, Elin Wedlund

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

15 [Defending wireless infrastructure against the challenge of DDoS attacks](#)

Xianjun Geng, Yun Huang, Andrew B. Whinston

June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3

Full text available:  pdf(313.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses possible Distributed Denial-of-Service (DDoS) attacks toward the wireless Internet including the Wireless Extended Internet, the Wireless Portal Network, and the Wireless Ad Hoc network. We propose a conceptual model for defending against DDoS attacks on the wireless Internet, which incorporates both cooperative technological solutions and economic incentive mechanisms built on usage-based fees. Cost-effectiveness is also addressed through an illustrative implementation sche ...

**Keywords:** DDoS attack, PBN, wireless ad hoc network, wireless extended internet, wireless infrastructure, wireless portal network

16 [Bibliography of recent publications on computer communication](#)

Martha Sreenstrup

October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5

Full text available:  pdf(1.44 MB) Additional Information: [full citation](#), [index terms](#)

17 Location management for mobile commerce applications in wireless Internet environment

Upkar Varshney

August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3

Full text available:  [pdf\(630.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With recent advances in devices, middleware, applications and networking infrastructure, the wireless Internet is becoming a reality. We believe that some of the major drivers of the wireless Internet will be emerging mobile applications such as mobile commerce. Although many of these are futuristic, some applications including user-and location-specific mobile advertising, location-based services, and mobile financial services are beginning to be commercialized. Mobile commerce applications pre ...

**Keywords:** Mobile commerce, infrastructure dependability, location management, mobile applications, satellites, wireless Internet, wireless LANs, wireless multicast

18 A service framework for carrier grade multimedia services using PARPLAY APIs over a SIP system

Rudolf Pailer, Johannes Stadler

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Full text available:  [pdf\(713.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added s ...

**Keywords:** SIR-PARLAY mapping, caller preferences, carrier grade services, network-independent services, service platform

19 Routing: On using the ad-hoc network model in cellular packet data networks

Hung-Yun Hsieh, Raghupathy Sivakumar

June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**

Full text available:  [pdf\(212.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


While several approaches have been proposed in literature for improving the performance of wireless packet data networks, a recent class of approaches has focused on improving the underlying wireless network model itself. Several of such approaches have shown that using peer-to-peer communication, a mode of communication used typically in ad-hoc wireless networks, can result in performance improvement in terms of both throughput and energy consumption. However, the true impact of using the ad-ho ...

**Keywords:** ad-hoc networks, cellular networks, wireless networks

20 Cellular image processing techniques for VLSI circuit layout validation and routing

T. N. Mudge, R. A. Rutenbar, R. M. Loughheed, D. E. Atkins

January 1982 **Proceedings of the 19th conference on Design automation**

Full text available:  [pdf\(769.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The architecture of the Cytocomputer?, an existing special-purpose, pipelined cellular image processor, is described. A formalism used to express cellular operations on images is then given. Cellular image processing algorithms are then developed that perform (1) design rule checks (DRC's) on VLSI circuit layouts, and (2) Lee-type wire routing. Two sets of cellular image processing transformations for checking the Mead and Conway design rules and for Lee-routing have been defined and used t ...

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